

Applicant: Peterson *et al.*
For: ELECTROSTATICALLY CHARGED AEROSOL
DECONTAMINATION SYSTEM AND METHOD

1 1. An electrostatically charged aerosol decontamination system comprising:
2 a source of decontamination reagent;
3 an aerosol device for converting said decontamination reagent into an
4 aerosol fog; and

5 an electrostatic charging circuit for inducing an electrostatic charge on the
6 aerosol particles for attracting them to the medium to be neutralized.

1 2. The electrostatically charged aerosol decontamination system of claim 1 in
2 which said aerosol device includes a nozzle.

1 3. The electrostatically charged aerosol decontamination system of claim 2 in
2 which said aerosol device includes a source of pressurized fluid and said nozzle is
3 connected to said source of pressurized fluid and said source of decontamination reagent.

1 4. The electrostatically charged aerosol decontamination system of claim 2 in
2 which said aerosol device includes a pressurizing device for pressurizing the
3 decontamination reagent for delivery to said nozzle.

1 5. The electrostatically charged aerosol decontamination system of claim 1 in
2 which said aerosol device includes a rotating disc and a delivery device for delivering a

3 flow of decontamination reagent to said rotating disc.

1 6. The electrostatically charged aerosol decontamination system of claim 1 in
2 which said decontamination reagent is a fluid.

1 7. The electrostatically charged aerosol decontamination system of claim 1 in
2 which said decontamination reagent is a powder.

1 8. The electrostatically charged aerosol decontamination system of claim 1 in
2 which said medium is a contaminating agent.

1 9. The electrostatically charged aerosol decontamination system of claim 1 in
2 which said medium is a contaminated body.

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- 1 10. A method of electrostatically charged aerosol decontamination comprising:
- 2 generating an aerosol fog of a decontamination reagent;
- 3 electrostatically charging the aerosol particles; and
- 4 dispensing the electrostatically charged aerosol particles in a contaminated
- 5 area to neutralize the contaminating agent.

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